

Notice of Allowability

Application No.

09/801,624

Applicant(s)

BIRTH, WINFRID

Examiner

Art Unit

Jean B Corielus

2637

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 9/28/04.
2. ☒ The allowed claim(s) is/are 1-4 and 9, renumbered as 1-5, respectively.
3. ☒ The drawings filed on 28 September 2004 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

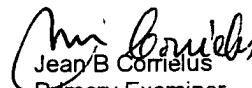
* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


Jean B Corielus
Primary Examiner
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12-09-04

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DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Aaron Waxler on 12/09/04.

2. The application has been amended as follows:

IN THE SPECIFICATION:

Page 11, line 1, after all-pass, --120' and 340'-- has been inserted.

IN THE CLAIMS:

Claims 5-8 have been canceled.

Claim 9 has been amended as follow:

--9. (Twice Amended) A method of generating a transmission signal, which method includes the following steps:

generating at least two uncompensated transmission signals, each of which includes at least one interference component, the respective interference components in the two transmission signals being phase shifted by a given amount relative to one another, wherein the phase of the interference component in one of the two uncompensated transmission signals (Y, Z) is shifted in such a manner that the amount of the phase difference between the

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interference components in the two uncompensated transmission

signals amounts to 0° or 180° after the phase shift,

adding the one of the two [phase-shifted] uncompensated transmission signals whose interference component has been phase shifted and the other uncompensated transmission signal when their respective interference components are of opposite phase and subtracting the one of the two [phase shifted] uncompensated transmission signals whose interference component has been phase shifted and [and] the other uncompensated transmission from one another when their respective interference components are of the same phase, thus yielding an at least partly compensated transmission signal.—

Reasons for Allowance

3. The following is an examiner's statement of reasons for allowance: a method and apparatus for minimizing interference from a transmitted signal are disclosed. The closest prior art, Alinikula, US Patent No. 5,786,728, discloses similar method and apparatus. However, Alinikula does not teach or fairly suggest "a transmitter including an all-pass (120) coupled to the modulation device (110) in order to generate an output signal by shifting the phase of the interference component in one of the two uncompensated transmission signals in such a manner that the interference component in the output signal of the all-pass has been phase shifted 0° or 180° relative to the interference component in the other one of the two uncompensated transmission signals, and also includes

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a combination device (130) for generating an at least partly compensated transmission signal by mathematical combination of the output signal of the all-pass (120) and the other uncompensated transmission signal in such a manner that their respective interference components, phase shifted 0° or 180° relative to one another are compensated in the at least partly compensated transmission signal." as recited in claim 1 and the limitations of "wherein the phase of the interference component in one of the two uncompensated transmission signals (Y, Z) is shifted in such a manner that the amount of the phase difference between the interference components in the two uncompensated transmission signals amounts to 0° or 180° after the phase shift, adding the one of the two uncompensated, transmission signals whose interference component has been phase shifted and the other uncompensated transmission signal when their respective interference components are of opposite phase and subtracting the one of the two uncompensated transmission signals whose interference component has been phase shifted and the other uncompensated transmission from one another when their respective interference components are of the same phase, thus yielding an at least partly compensated transmission signal." as recited in claim 9, are neither anticipated nor rendered obvious by Alinikula.

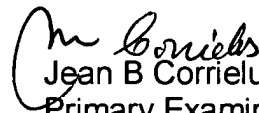
Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jean B Corrielus whose telephone number is 571-272-3020. The examiner can normally be reached on Maxi-Flex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on 571-272-3086. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Jean B Corrielus
Primary Examiner
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12-09-04